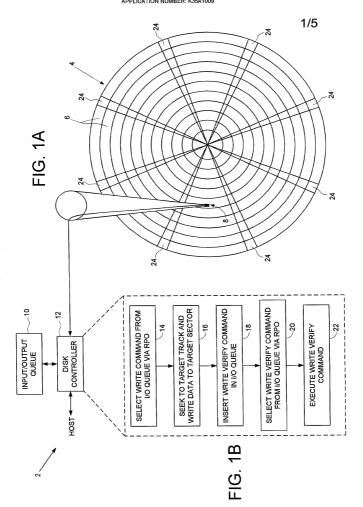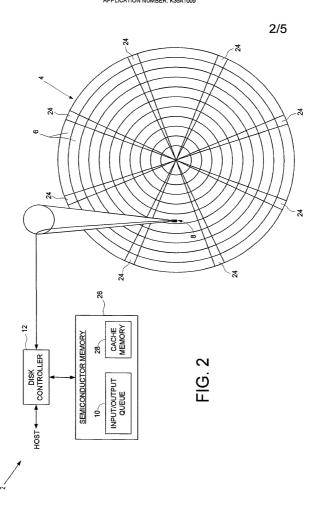1/5

FIG. 1A

FIG. 1B

TITLE: DISK DRIVE USING ROTATIONAL POSITION OPTIMIZATION ALGORITHM
TO FACILITATE WRITE VERIFY OPERATIONS
INVENTOR: GREGORY B. THELIN
APPLICATION NUMBER: K35A1009

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FIG. 2

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FIG. 3

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FIG. 3

SELECT COMMAND FROM
I/O QUEUE ~ 50

52 — READ
CMD
? — YES → EXECUTE READ COMMAND ~ 58

NO

EXECUTE WRITE CMD ~ 54

60 — ERROR
? — NO → 62 — W.V.
READ
? — NO

YES — YES

PUT W.F. READ CMD
IN I/O QUEUE ~ 56

DEALLOCATE CACHE
MEMORY ~ 64

61 — W.V.
READ
? — NO ← ← YES

66 — EXCEED
RETRIES
? — YES

NO — 63 — EXCEED
RETRIES
?

68 — YES

70 — YES — NO

EXECUTE RETRY
READ

EXECUTE HEORIC
RECOVERY

65 — PUT RELOCATE
CMD IN I/O QUEUE

64 — PUT WRITE CMD
IN I/O QUEUE

PUT WRITE CMD
IN I/O QUEUE — YES ← SUCCESS
? ~ 72

74

NO

RETURN ERROR TO HOST ~ 76

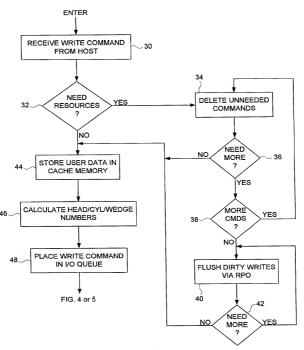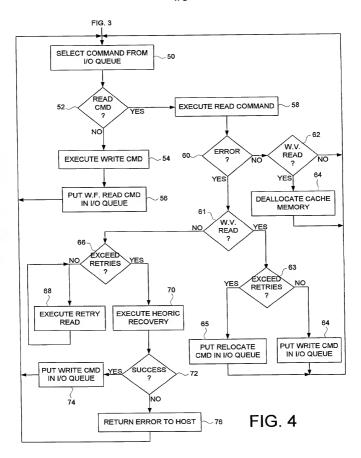FIG. 4

TITLE: DISK DRIVE USING ROTATIONAL POSITION OPTIMIZATION ALGORITHM
TO FACILITATE WRITE VERIFY OPERATIONS
INVENTOR: GREGORY B. THELIN
APPLICATION NUMBER: K35A1009

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FIG. 5